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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/535,521	05/18/2005	Michael R. Emmert-Buck	4239-73127-03	7250
	7590 04/02/200 SPARKMAN, LLP	8	EXAMINER	
121 S.W. SALN		CALAMITA, HEATHER		
SUITE #1600 PORTLAND, OR 97204-2988			ART UNIT	PAPER NUMBER
			1637	
			MAIL DATE	DELIVERY MODE
			04/02/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)
		10/535,521	EMMERT-BUCK ET AL.
Office Actio	on Summary	Examiner	Art Unit
		HEATHER G. CALAMITA	1637
The MAILING DA Period for Reply	TE of this communication app	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATU WHICHEVER IS LONG - Extensions of time may be ava after SIX (6) MONTHS from the If NO period for reply is specific - Failure to reply within the set o	ER, FROM THE MAILING D. illable under the provisions of 37 CFR 1.1 e mailing date of this communication. It is above, the maximum statutory period or extended period for reply will, by statute e later than three months after the mailing	Y IS SET TO EXPIRE 3 MONTH(ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE g date of this communication, even if timely filed	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a) ☐ This action is FIN 3) ☐ Since this applica	tion is in condition for allowa	anuary 2008. s action is non-final. nce except for formal matters, pro Ex parte Quayle, 1935 C.D. 11, 45	
Disposition of Claims			
4a) Of the above of 5) ☐ Claim(s) is 6) ☑ Claim(s) <u>1-3, 5-7</u> 7) ☐ Claim(s) is	<u>and 9-13</u> is/are rejected.	ithdrawn from consideration.	
Application Papers			
10) ☐ The drawing(s) file Applicant may not r Replacement drawi	equest that any objection to the	er. epted or b) objected to by the Editation of the Edit	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. §	119		
a) All b) Some 1. Certified co 2. Certified co 3. Copies of the application	e* c) None of: pies of the priority document pies of the priority document ne certified copies of the prio from the International Burea	s have been received in Applicati rity documents have been receive	on No ed in this National Stage
Attachment(s) 1) ☑ Notice of References Cited	(PTO-892)	4) ☐ Interview Summary	(PTO-413)
	tent Drawing Review (PTO-948) ement(s) (PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 5, 2008, has been entered.

Status of Application, Amendments, and/or Claims

2. Claims 1-3, 5-13 and 22-24 are pending. Claims 8 and 22-24 are withdrawn as being directed to non-elected subject matter. Claims 1-3, 5-7 and 9-13 are under examination. Any objections and rejections not reiterated below are hereby withdrawn.

Specification

3. The disclosure is objected to because it contains an embedded hyperlink and/or other form of browser-executable code. Applicant is required to delete the embedded hyperlink and/or other form of browser-executable code. See MPEP § 608.01.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 5-7 and 9-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Kononen et al. (Nature Medicine, 1998).

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With regard to claim 1, Kononen et al. teach a method for analyzing the transcriptome of a tissue section comprising analyzing two or more molecular species present in the tissue section while maintaining the 2-dimensional architecture of the molecules within the tissue section, wherein the method comprises (see Figure 1 and Legend):

partitions, wherein the multiple discrete partitions comprise at least one of a plurality of grids or a plurality of wells, whereby each grid or well sequesters molecules corresponding to a specific region or cell type of the tissue section, thereby preserving the 2-dimensional architecture of the molecules present within the tissue section, and determining the location (s) in the tissue section in which the two or more molecular species are present (see Figure 1 and Legend, where the EMI is the adhesive-coated tape sectioning system. This is set up in a grid pattern and the adhesive sequesters molecules corresponding to a specific region of the tissue section and preserves the 2-dimensional architecture of the molecules within the tissue section)

With regard to claim 2, Kononen et al. teach wherein tissue sample obtained from a mammal (see p.844 col. 2 first full paragraph where the tissues is from breast).

With regard to claim 3, Kononen et al. teach the mammal is a human (see the abstract and p.844 col. 2 first full paragraph where the tissues is from breasts of human patients).

With regard to claim 5, Kononen et al. teach the tissue sample is a section from a biopsy (see p. 844 col. 1 first paragraph of the introduction, where the tissue is a core tissue biopsy).

With regard to claim 6, Kononen et al. teach the molecular species are nucleic acid molecules (see the abstract where DNA and RNA targets are disclosed).

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With regard to claim 7, Kononen et al. teach the method additionally comprises incubating the sequestered molecules under conditions sufficient to permit the manipulation of one or more preselected nucleic acid molecules if present in at least one of the plurality of grids or the plurality of wells, while preserving the 2-dimensional architecture of said molecules relative to other molecules of the tissue section (see p. 845 col. 1, where the arrays were subjected to RNAish and see Figure 2 and Legend).

With regard to claim 9, Kononen et al. teach one or more of the preselected nucleic acid molecules are diagnostic of a disease state (see p. 845 col. 1, where the breast cancer array exhibited overexpression of ERBB2 mRNA).

With regard to claim 10, Kononen et al. teach the manipulation is assaying a biomolecule (see p. 845 col. 1, where the breast cancer array exhibited overexpression of ERBB2 mRNA and RNA is the biomolecule assayed).

With regard to claim 11, Kononen et al. teach incubating the sequestered molecules in the plurality of grids or the plurality of wells under conditions sufficient to permit the manipulation of said one or more preselected nucleic acid molecules (see p. 845 col. 1, where the arrays were subjected to RNAish and see Figure 2 and Legend).

With regard to claim 12, Kononen et al. teach the one or more preselected nucleic acid molecules are diagnostic of a disease state (see p. 845 col. 1, where the breast cancer array exhibited overexpression of ERBB2 mRNA).

With regard to claim 13, Kononen et al. teach the manipulation is assaying a biomolecule (see p. 845 col. 1, where the breast cancer array exhibited overexpression of ERBB2 mRNA and RNA is the biomolecule assayed).

Response to Arguments

5. Applicant's arguments with respect to previously made 102 (e) rejections have been considered but are most in view of the new 102 (b) rejections

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Summary

6. No claims were allowable.

Correspondence

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heather G. Calamita whose telephone number is 571.272.2876 and whose e-mail address is heather.calamita@uspto.gov. However, the office cannot guarantee security through the e-mail system nor should official papers be transmitted through this route. The examiner can normally be reached on Monday through Thursday, 7:00 AM to 5:30 PM.

If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Gary Benzion can be reached at 571.272.0782.

Papers related to this application may be faxed to Group 1637 via the PTO Fax Center using the fax number 571.273.8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to 571.272.0547.

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/Heather G. Calamita, Ph.D./ Examiner, Art Unit 1637